

MULTI-POLARIZED FEEDS FOR DISH ANTENNAS

CROSS-REFERENCE TO RELATED APPLICATIONS/INCORPORATION BY REFERENCE

- [01] This application is a continuation-in-part (C-I-P) of co-pending patent application serial number 10/294,420 filed on November 14, 2002, which is incorporated herein by reference in its entirety. *now a US Patent number 6,806,841 issued 10/19/2004*
- [02] U.S. application serial number 10/787031 entitled "Apparatus and Method for a Multi-Polarized Antenna" and filed on the same day as the application herein, is incorporated herein by reference in its entirety.
- [03] U.S. application serial number 10/787025 entitled "Apparatus and Method for a Multi-Polarized Ground Plane Beam Antenna" and filed on the same day as the application herein, is incorporated herein by reference in its entirety.
- [04] U.S. Patent 6,496,152 issued on December 17, 2002 is incorporated herein by reference in its entirety.

TECHNICAL FIELD

- [05] Certain embodiments of the present invention relate to feed elements for dish reflector antennas used in wireless communications. More particularly, certain embodiments of the present invention relate to providing a multi-polarized antenna feed element exhibiting substantial spatial diversity for use in communication applications for the Internet, cellular telephone, maritime, aviation, satellite, and space.

BACKGROUND OF THE INVENTION

- [06] For years, wireless communications including Wi-Fi, WWAN, and WLAN, Cell/PCS phones, Land Mobile radio, aircraft, satellite, etc. have struggled with limitations of audio/video/data transport and internet connectivity in both obstructed (indoor/outdoor) and line-of-site (LOS) deployments.